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मानक

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Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 7996 (1976): Driving Squares for Power Socket Wrenches
[PGD 5: Assembly Hand Tools]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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Indian Standard
**SPECIFICATION FOR
DRIVING SQUARES FOR POWER
SOCKET WRENCHES**

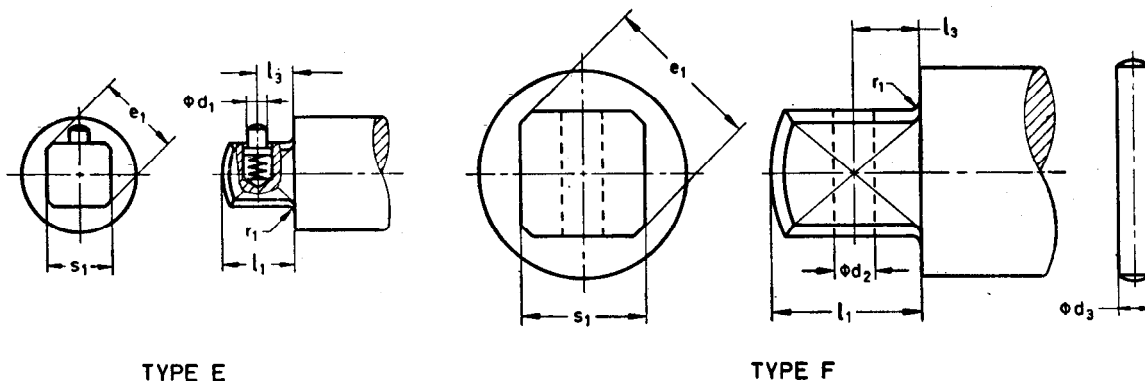
1. Scope — Covers requirements for driving squares for power socket wrenches.

2. Dimensions

2.1 Male Driving Square — See Table 1.

TABLE 1 DIMENSIONS FOR MALE DRIVING SQUARE

All dimensions in millimetres.



Type	Nominal Size of Driving Square s_1	s_1		d_1 Max	d_2 Min	d_3 Max	e_1		l_1 Max	l_3	Tol on l_3	r_1 Max
		Max	Min				Max	Min				
(E) F	6.3	6.350	6.292	1.5	2	1.5	8.4	8.0	7.5	4	± 0.18	0.5
(E) F	10	9.525	9.467	2.5	3	2.5	12.7	12.2	10.7	5.5	± 0.18	0.6
(E) F	12.5	12.700	12.630	3.0	4	3.0	16.9	16.3	15.4	7.9	± 0.22	0.8
(E) F	16	15.875	15.805	3.5	4.5	3.5	21.2	20.4	16.3	7.9	± 0.22	1.0
F	20	19.050	18.966	—	6	4.5	25.4	24.4	22.9	10.2	± 0.27	1.2
F	25	25.400	25.316	—	6.5	5	34.0	32.4	27.6	15	± 0.27	1.6
F	40	38.100	38.000	—	8	6	50.0	48.0	39.3	16.1	± 0.27	2.5
F	63	63.500	63.380	—	10	8	84.0	82.0	55.6	38.1	± 0.39	4.0

Note — The use of types shown in parentheses shall be avoided.

2.2 Female Driving Square — See Table 2.

3. Material — The spring shall be manufactured from spring steel of Designation 50cr1 of IS : 2507-1965 'Specification for cold rolled steel strip for springs'.

4. Designation — A female driving square for power socket wrench of Type H, having nominal size of driving square of 25 mm shall be designated as:

Female Square H 25, IS : 7996

5. Sampling

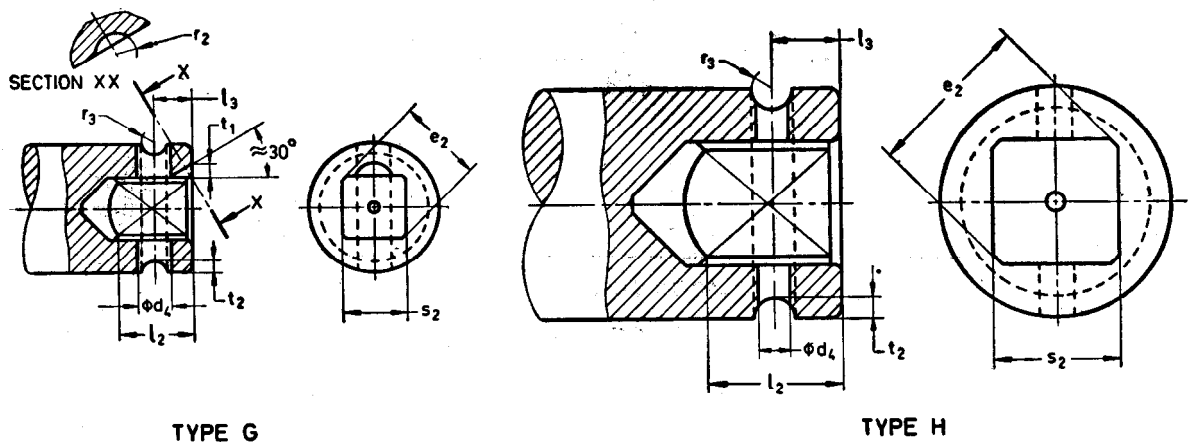
5.1 Lot — All the driving squares for power socket wrenches of the same type and size in a consignment shall be grouped together to constitute a lot.

5.2 Unless otherwise agreed to between the buyer and the seller, the procedure given in IS : 2500 (Part I) - 1973 'Sampling inspection tables: Part I Inspection by attributes and by count of defects (first revision)' shall be followed.



TABLE 2 DIMENSIONS FOR FEMALE DRIVING SQUARE
(Clause 2.2)

All dimensions in millimetres.



Type	Nominal Size of Driving Square s_2	s_2		d_1 Min	e_2 Min	l_2 Min	l_3	Tol on l	r_2	r_3	t_1	t_2
		Max	Min									
G	6.3	6.495	6.405	3.0	8.5	8.0	4.0	± 0.18	2	1.2	1.5	1.0
G	10	9.670	9.580	5.0	12.9	11.2	5.5	± 0.18	3	2.0	2.5	1.6
G	12.5	12.865	12.755	5.6	17.1	15.9	7.9	± 0.22	4	2.5	3.0	2.0
G (H)	16	16.040	15.930	5.6	21.4	16.7	7.9	± 0.22	4	2.5	3.0	2.5
H	20	19.235	19.105	6.0	25.6	23.9	10.2	± 0.27	—	3.0	—	3.0
H	25	25.585	25.455	6.5	34.3	28.6	15.0	± 0.27	—	4.0	—	4.0
H	40	38.350	38.190	8.0	50.4	41.3	16.1	± 0.27	—	5.0	—	5.0
H	63	63.790	63.600	10.0	85.0	57.6	38.1	± 0.39	—	6.0	—	6.0

Note — The use of type shown in parentheses shall be avoided.

5.2.1 To determine the conformity for the requirements of this standard, the single sampling plan corresponding to inspection level IV and acceptable quality level (AQL) 2.5 percent given in Tables 1 and 2 of IS : 2500 (Part I)-1973 shall be followed.

6. Marking — The driving square shall be marked with nominal dimensions, manufacturer's name or initials and recognized trade-mark.

6.1 ISI Certification Marking — Details available with the Indian Standards Institution.

EXPLANATORY NOTE

This standard lays down the requirements for four types of drive squares for power socket wrenches. The male drive square of Type E is provided with a spring loaded pin whereas Type F has been provided with a through pin hole. The female drive squares of Types G and H are provided with a through pin hole and ring groove for seating rubber rings for holding the pin. A 30° guide groove has been provided in case of female drive squares of Type G in order to facilitate the insertion of male square.

This standard is in conformity with ISO 1174-1975 ' Assembly tools for bolts and screws — Driving squares for power socket wrenches and hand socket wrenches ' issued by the International Organization for Standardization (ISO). Assistance has also been derived from DIN 3121-1971 ' Verbindungsvierkante für Maschinenschrauber-werkzeuge (Driving squares for power socket wrenches) ' issued by Deutsches Institut für Normung.

AMENDMENT NO. 1 OCTOBER 1977

TO

IS:7996-1976 SPECIFICATION FOR DRIVING
SQUARES FOR POWER SOCKET WRENCHES

Alterations

*(Pages 1 and 2, clauses 5, 5.1, 5.2,
5.2.1, 6 and 6.1) - Delete these clauses.*

(EDC 12)

Reprography Unit, ISI, New Delhi



AMENDMENT NO. 2 DECEMBER 1984

TO

IS:7996-1976 SPECIFICATION FOR DRIVING SQUARES FOR
POWER SOCKET WRENCHES

*(Page 1, Table 1, fourth and fifth entries
under column 'd₃ Max') - Substitute '3' for '3.5'
and '4' for '4.5'.*

(EDC 12)

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